



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Stephen P.A. Fodor, Lubert Stryer, J. Leighton Read and Michael C. Pirrung

Application No.: 10/033,195 Group: 1655

Filed: December 28, 2001 Examiner: Not Assigned

Confirmation No.: 7969

For: NUCLEOTIDES AND ANALOGS HAVING PHOTOREMOVABLE PROTECTING GROUPS

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, P.O. Box 2327, Arlington, VA 22202	
on <u>October 8, 2002</u>	<u>Elizabeth Anne Sweeney</u>
Date	Signature
<u>Elizabeth Anne Sweeney</u>	
Typed or printed name of person signing certificate	

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
P.O. Box 2327  
Arlington, VA 22202

Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or  
(First/Second submission after Final Rejection)
- ☒ under 37 CFR 1.97(b), or  
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).
- ☐ under 37 CFR 1.97(c) together with either:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, or
- ☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

- ☐ under 37 CFR 1.97(d) together with:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, and
  - ☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)
- ☐ under 37 CFR 1.97(i):  
Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.  
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
- ☐ Copies of the cited references are enclosed.
  - ☒ Copies of the cited references were entered in a related application, U.S. Application No. 09/465,126.
  - ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
  - ☐ The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:
    - ☐ the explanation provided on the attached sheet.
    - ☐ the explanation provided in the Specification.
    - ☐ submission of the enclosed International Search Report.
    - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
    - ☐ the enclosed English language abstract.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_\_ U.S. Patent Application No. [     ], by [inventor(s)], filed [     ], Docket No.: [     ]

\_\_\_\_\_ U.S. Patent Application No. [     ], by [inventor(s)], filed [     ], Docket No.: [     ]

\_\_\_\_\_ U.S. Patent Application No. [     ], by [inventor(s)], filed [     ], Docket No.: [     ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

☐ A copy of each above-cited application, including the current claims, is enclosed.

☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [     ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.

☐ Please charge Deposit Account 08-0380 in the amount of \$[     ]. A copy of this Statement is enclosed.

☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

REMARKS

Applicants are mindful of the large number of references that have been cited in the IDS and associated 1449 form filed herewith. These references have arisen during litigation involving patents that relate to the present application and during the normal course of prosecution of related subject matter. Applicants have cited them to fulfill their duty of disclosure. In an effort to make the review of these references more manageable for the Examiner, Applicants have provided the PTO with multiple copies of two compact discs (CDs) with the references available for electronic viewing or searching.

Applicants representative, Mr. Philip McGarrigle, has provided the CDs to Group Director John Doll, Supervisory Primary Examiners Michael Woodward and Gary Jones, and Special Examiner Cecilia Tsang (as well as many individual Examiners). The CDs given to Mssrs. Doll, Woodward and Jones were for distribution to individual Examiners within their respective groups. The CDs presented to Examiner Tsang were to accompany the hard copies of the references in the IDS which are in a central location in her office for the availability of all Examiners.

Of the two CDs that make up the IDS, one contains the articles and another contains patents/published applications. The CD containing the articles is in .pdf format and can be viewed by selecting the appropriate article as discussed below. The patent CD contains text versions and versions of the patents with the appropriate figures. It is fully searchable and contains a program that has the ability to search for specific terms or to use Boolean logic to formulate more specific searches. There are links within each full text patent to the patents that are cited therein.

The vendor who prepared the patent literature CD suggests opening the REAMDE.HTML file in the root directory of the CD before use. It contains the directions for how to use the CD, as well as a hyperlink to the patent list. The CD that contains the articles suggests opening "Index" or "Index2" to view images. 1449 forms will appear which list the articles which can be opened by clicking on the hyperlinked number of the article in the left hand column.

Additionally, Applicants would like to notify the Examiner of inter party matters that relate to the present application. Two commonly owned patents US 5,744,305 and US 5,800,992 have been involved in interference proceedings. Specifically, the interferences were Interference No. 104,359 between commonly owned US 5,744,305 and Brown *et al.*, USSN 08/688,488, and Interference No. 104,358 between commonly owned US 5,800,992 and USSN 08/514,875. Both interferences were decided by the U.S. Patent Office in favor of the real party in interest, Affymetrix, Inc., the assignee of the present application. The losing party, Stanford, appealed to the Northern District of California where the case is currently pending (Case # C99-21JF). The Junior party challenged the patents on the basis of lack of enablement and written description under 35 USC §112, among other issues. The Junior party's initial

position is set out in papers (with supporting information) entitled "Request for Declaration of Interference, 37 C.F.R. §1.608" in both interferences. The initial response of Senior party Patentee is set out in papers (with supporting information) entitled "Fodor's Opposition to Brown's Rule 608(b) Request" in both interferences.

Further, US 5,744,305 and US 5,800,992 were the subject of litigation (*Affymetrix, Inc. v. Hyseq, Inc.*, US District Court for the Northern District of California, San Francisco Division, Civil Action No. C98-03192 FMS, and *Affymetrix, Inc. v. Syntex, Inc. and Incyte Pharmaceuticals, Inc.*, US District Court for the Northern District of California, San Francisco, Case No. C98-4508 FMS (MEJ)). In the course of these proceedings, allegations of invalidity over prior art, lack of enablement, lack of support and inequitable conduct (relating to duty of candor, content of declarations under 37 CR §1.132, and arguments made during prosecution) were raised. These allegations are denied. Further, oppositions have been filed against a related European application EP 619,321 in the European Patent Office, and a revocation proceeding has been brought in the United Kingdom against related patents GB 2,248,840 and EP (UK) 0619 321. Collectively, these proceedings have generated a considerable number of references, which are cited in the IDS and CDs filed herewith. Applicants can provide copies of litigation documents that may be of interest to the Examiner, but have not done so due to the extensive nature of the multiple litigation and papers filed therein.

In a lawsuit that was settled with Incyte Genomics (*Incyte Genomics v. Affymetrix*), Affymetrix counterclaimed for patent infringement under U.S. patent 5,871,928 ('928). The '928 patent is in a family of applications related to the present application. Incyte has filed their "Initial Disclosure of Prior Art" and the references cited therein have been included in the current IDS. The lawsuit was filed in the Northern District of California, San Francisco division (Case No. C 00-3210 MJJ) and was settled in 2001.

The references cited on the attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references can be found in a "Master Binder Set" originally submitted to Examiner Tsang on January 27, 2000 and supplemented on dates thereafter.

As provided for by 37 C.F.R. 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

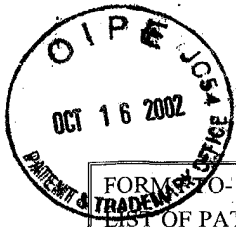
Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

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Concord, MA 01742-9133

Dated: October 8, 2002



FORM O-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT (Use several sheets if necessary)

Docket No.: 2719.2002-001

Application No.: 10/033,195

Applicant: Stephen P. A. Fodor, et. al.

Filing Date: December 28, 2001

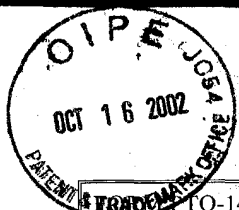
Group: 1655

Reference Designation

U.S. PATENT DOCUMENTS

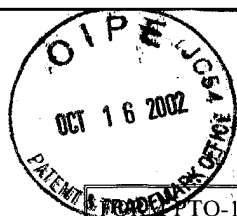
Page 1

Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
AA	3,730,844	5/1/73	Gilham et al.	195	103.5 R	8/27/71
AB	3,849,137	11/19/74	Barzynski et al.	96	97	10/5/72
AC	3,862,056	1/21/75	Hartman	252	511	12/20/72
AD	3,939,350	2/17/78	Kronick et al.	250	365	4/29/74
AE	4,072,576	2/7/78	Arwin et al.	195	103.5 R	9/20/76
AF	4,121,222	10/17/78	Diebold et al.	347	7	7/6/77
AG	4,180,739	12/25/79	Abu-Shumays	250	461 R	12/23/77
AH	4,216,245	8/5/80	Johnson	427	2.13	7/25/78
AI	4,238,757	12/9/80	Schenck	357	25	3/19/76
AJ	4,269,933	5/26/81	Pazos	430	291	9/28/79
AK	4,314,821	2/9/82	Rice	23	230 B	7/28/80
AL	4,327,073	4/27/82	Huang	424	1	4/7/80
AM	4,339,528	7/13/82	Goldman	430	323	5/19/81
AN	4,342,905	8/3/82	Fujii et al.	250	201	8/21/80
AO	4,373,071	2/8/83	Itakura	525	375	4/30/81
AP	4,395,486	7/26/83	Wilson et al.	435	6	8/19/81
AQ	4,405,771	9/20/83	Jagur	528	266	10/16/81
AR	4,444,878	4/24/84	Paulus	435	7	12/21/81
AS	4,444,892	4/24/84	Malmros	436	528	5/17/82
AT	4,448,534	5/15/84	Wertz et al.	356	435	10/5/79
AU	4,458,066	7/3/84	Caruthers et al.	536	27	3/24/81
AV	4,483,920	11/20/84	Gillespie et al.	435	6	5/17/82
AW	4,500,707	2/19/85	Caruthers et al.	536	27	3/16/82
AX	4,500,919	2/19/85	Schreiber	358	78	5/4/82
AY	4,516,833	5/14/85	Fusek	350	162.12	12/27/82
AZ	4,517,338	5/14/85	Urdea et al.	525	54.11	7/13/84
BA	4,533,682	8/6/85	Tortorello et al.	523	414	4/29/83
BB	4,537,861	8/27/85	Elings et al.	436	518	2/3/83
BC	4,542,102	9/17/85	Dattagupta et al.	435	6	7/5/83
BD	4,555,490	11/26/85	Merril	436	86	6/8/84
BE	4,556,643	12/3/85	Paau et al.	435	5	2/1/83
BF	4,562,157	12/31/85	Lowe et al.	435	291	5/25/84
BG	4,563,419	1/7/86	Ranki et al.	435	6	12/29/83
BH	4,569,967	2/11/86	Kornreich et al.	525	54.11	10/24/83
BI	4,580,895	4/8/86	Patel	356	39	10/28/83
BJ	4,584,277	4/22/86	Ullman	436	501	4/5/83

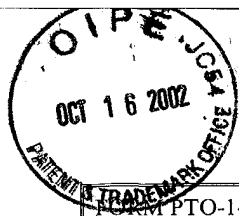


P.T.O.-1449 (Modified)			Attorney Docket No.: 2719.2002-001		Application No.: 10/033,195	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Applicants: Stephen P.A. Fodor, et al.			
			Filing Date:December 28, 2001		Group: 1655	
BK	4,588,682	5/13/86	Groet et al.	435	6	12/13/82
BL	4,591,570	5/27/86	Chang	435	7.24	2/2/83
BM	4,598,049	7/1/86	Zelinka et al.	422	116	8/31/83
BN	4,613,566	9/23/86	Potter	435	6	1/23/84
BO	4,624,915	11/25/86	Schindler et al.	435	4	7/14/83
BP	4,626,684	12/2/86	Landa	250	328	7/13/83
BQ	4,631,211	12/23/86	Houghten	428	35	3/25/85
BR	4,637,861	1/20/87	Krull et al.	204	1 T	12/16/85
BS	4,656,127	4/7/87	Mundy	435	6	4/23/84
BT	4,670,380	6/2/87	Dattagupta	435	6	5/23/84
BU	4,677,054	6/30/87	White et al.	435	6	8/8/83
BV	4,681,859	7/21/87	Kramer	436	501	9/21/84
BW	4,683,195	7/28/87	Mullis et al.	435	6	2/7/86
BX	4,683,202	7/28/87	Mullis	435	91	10/25/85
BY	4,689,405	8/25/87	Frank et al.	536	27	1/4/84
BZ	4,704,353	11/3/87	Humphries et al.	435	4	4/27/84
CA	4,711,955	12/8/87	Ward et al.	536	29	5/23/83
CB	4,713,326	12/15/87	Dattagupta et al.	435	6	5/18/84
CC	4,713,347	12/15/87	Mitchell et al.	436	501	1/14/85
CD	4,715,413	12/29/87	Backlund et al.	141	94	10/8/86
CE	4,716,106	12/29/87	Chiswell	435	6	2/28/85
CF	4,719,179	1/12/88	Barany	435	172.1	11/30/84
CG	4,719,615	1/12/88	Feyrer et al.	369	284	3/4/86
CH	4,722,906	2/2/88	Guire	436	501	9/29/82
CI	4,728,502	3/1/88	Hamill	422	116	4/26/85
CJ	4,728,591	3/1/88	Clark et al.	430	5	3/7/86
CK	4,731,325	3/15/88	Palva et al.	435	6	1/24/85
CL	4,737,344	4/12/88	Koizumi et al.	422	100	4/22/87
CM	4,755,458	7/5/88	Rabbani et al.	435	5	8/30/84
CN	4,762,881	8/9/88	Kauer	525	54.11	1/9/87
CO	4,766,062	8/23/88	Diamond et al.	435	6	5/7/84
CP	4,767,700	8/30/88	Wallace	435	6	2/15/85
CQ	4,777,019	10/11/88	Dandekar	422	68	4/11/86
CR	4,780,504	10/25/88	Buendia et al.	525	54.11	6/5/86
CS	4,786,170	11/22/88	Groeblor	356	318	5/13/86
CT	4,786,684	11/22/88	Glass	525	54.1	8/21/86
CU	4,794,150	12/27/88	Steel	525	54.11	3/11/87
CV	4,808,508	2/28/89	Platzer	430	143	7/1/86

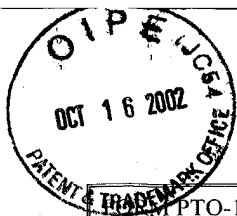




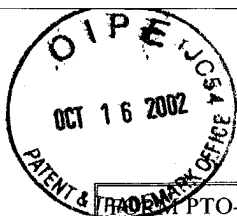
PTO-1449 (Modified)			Attorney Docket No.: 2719.2002-001		Application No.: 10/033,195	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Applicants: Stephen P.A. Fodor, et al.			
			Filing Date: December 28, 2001		Group: 1655	
CW	4,810,869	3/7/89	Yabe et al.	250	201	12/23/87
CX	4,811,062	3/7/89	Tabata et al.	356	152	7/1/88
CY	4,811,218	3/7/89	Hunkapiller et al.	204	461	6/2/86
CZ	4,812,512	3/14/89	Buendia et al.	525	54.11	6/26/86
DA	4,820,630	4/11/89	Taub	435	5	11/23/84
DB	4,822,566	4/18/89	Newman	422	68	5/18/87
DC	4,833,092	5/23/89	Geysen	436	501	12/22/86
DD	4,844,617	7/4/89	Kelderman et al.	356	372	1/20/88
DE	4,846,552	7/11/89	Veldkamp et al.	350	162.2	2/9/88
DF	4,849,513	7/18/89	Smith et al.	536	27	6/24/86
DG	4,855,225	8/8/89	Fung et al.	435	6	2/7/86
DH	4,865,990	9/12/89	Stead et al.	435	803	7/9/87
DI	4,868,103	9/19/89	Stavrianopoulos et al.	435	5	2/19/86
DJ	4,874,500	10/17/89	Madou et al.	204	412	7/15/87
DK	4,877,745	10/31/89	Hayes et al.	436	166	3/14/89
DL	4,886,741	12/12/89	Schwartz	435	5	12/9/87
DM	4,888,278	12/19/89	Singer et al.	435	6	10/13/88
DN	4,921,805	5/1/90	Gebeyehu et al.	435	270	9/29/89
DO	4,923,901	5/8/90	Koester et al.	521	53	9/4/87
DP	4,925,785	5/15/90	Wang et al.	435	6	3/7/86
DQ	4,931,384	6/5/90	Layton et al.	435	7.31	10/17/84
DR	4,946,942	8/7/90	Fuller et al.	530	335	3/11/88
DS	4,965,188	10/23/90	Mullis et al.	435	6	6/17/87
DT	4,973,493	11/27/90	Guire	427	2	10/15/87
DU	4,979,959	12/25/90	Guire	623	66	5/5/89
DV	4,981,783	1/1/91	Augenlicht	435	6	4/16/86
DW	4,981,985	1/1/91	Kaplan et al.	556	50	10/20/87
DX	4,984,100	1/8/91	Takayama et al.	360	49	7/14/89
DY	4,987,065	1/22/91	Stavrianopoulos et al.	435	5	12/2/85
DZ	4,988,617	1/29/91	Landegren et al.	435	6	3/25/88
EA	4,992,383	2/12/91	Farnsworth	436	89	8/5/88
EB	4,994,373	2/19/91	Stavrianopoulos et al.	435	6	7/20/89
EC	5,002,867	3/26/91	Macevicz	435	6	10/24/88
ED	5,006,464	4/9/91	Chu et al.	435	7.1	10/1/87
EE	5,011,770	4/30/91	Kung et al.	435	6	7/24/90
EF	5,013,669	5/7/91	Peters, Jr. et al.	436	518	6/1/88
EG	5,021,550	6/4/91	Zeiger	530	334	9/11/90
EH	5,026,773	6/25/91	Steel	525	54.11	12/5/88



FORM PTO-1449 (Modified)			Attorney Docket No.: 2719.2002-001		Application No.: 10/033,195	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Applicants: Stephen P.A. Fodor, et al.			
			Filing Date: December 28, 2001		Group: 1655	
___ EI	5,026,840	6/25/91	Dattagupta et al.	536	27	2/6/90
___ EJ	5,028,525	7/2/91	Gray et al.	435	6	6/26/90
___ EK	5,028,545	7/2/91	Soini	436	501	6/9/88
___ EL	5,037,882	8/6/91	Steel	525	54.11	12/23/88
___ EM	5,043,265	8/27/91	Tanke et al.	435	6	3/26/87
___ EN	5,047,524	9/10/91	Andrus et al.	536	27	12/21/88
___ EO	5,064,754	11/12/91	Mills	435	6	11/13/87
___ EP	5,077,085	12/31/91	Schnur et al.	427	98	3/6/87
___ EQ	5,077,210	12/31/91	Eigler et al.	435	176	1/13/89
___ ER	5,079,600	1/7/92	Schnur et al.	357	4	4/14/88
___ ES	5,081,584	1/14/92	Omichinski et al.	364	497	3/13/89
___ ET	5,082,830	1/21/92	Brakel at al.	514	44	2/26/88
___ EU	5,091,652	2/25/92	Mathies et al.	250	458.1	6/1/90
___ EV	5,096,807	3/17/92	Leaback	435	6	12/1/89
___ EW	5,100,626	3/31/92	Levin	422	100	5/24/90
___ EX	5,100,777	3/31/92	Chang	435	7.24	4/27/87
___ EY	5,112,962	5/12/92	Letsinger et al.	536	27	11/9/90
___ EZ	5,141,813	8/25/92	Nelson	428	402	8/28/89
___ FA	5,143,854	9/1/92	Pirrung et al.	436	518	3/7/90
___ FB	5,149,625	9/22/92	Church et al.	435	6	3/28/90
___ FC	5,153,319	10/6/92	Caruthers et al.	536	27	3/31/86
___ FD	5,164,319	11/17/92	Hafeman et al.	435	287.1	11/17/89
___ FE	5,171,695	12/15/92	Ekins	436	501	2/3/89
___ FF	5,188,963	2/23/93	Stapleton	435	288.3	11/17/89
___ FG	5,192,980	3/9/93	Dixon et al.	356	326	6/26/91
___ FH	5,200,051	4/6/93	Cozzette et al.	204	403	11/7/89
___ FI	5,202,231	4/13/93	Drmanac et al.	435	6	6/18/91
___ FJ	5,206,137	4/27/93	Ip et al.	435	6	11/21/91
___ FK	5,215,882	6/1/93	Bahl et al.	435	6	11/30/89
___ FL	5,215,889	6/1/93	Schultz	435	41	9/8/89
___ FM	5,219,726	6/15/93	Evans	435	6	6/2/89
___ FN	5,225,326	7/6/93	Bresser et al.	435	6	10/28/91
___ FO	5,232,829	8/3/93	Longiaru et al.	435	6	9/29/89
___ FP	5,235,028	8/10/93	Barany et al.	528	335	9/16/91
___ FQ	5,242,974	9/7/93	Holmes	525	54.11	11/22/91
___ FR	5,252,743	10/12/93	Barrett et al.	548	303.7	11/13/90
___ FS	5,256,549	10/26/93	Urdea et al.	435	91	4/27/90
___ FT	5,258,506	11/2/93	Urdea et al.	536	23.1	8/25/89



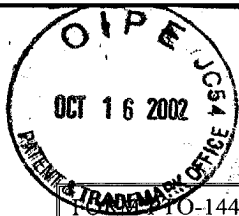
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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Applicants: Stephen P.A. Fodor, et al.			
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FU	5,306,641	4/26/94	Saccocio	436	85	8/12/91
FV	5,310,893	5/10/94	Erlich et al.	536	24.31	5/4/89
FW	5,324,633	6/28/94	Fodor et al.	435	6	11/22/91
FX	5,328,824	7/12/94	Ward et al.	435	6	12/8/87
FY	5,348,855	9/20/94	Dattagupta et al.	435	6	10/4/91
FZ	5,384,261	1/24/95	Winkler et al.	436	518	11/22/91
GA	5,405,783	4/11/95	Pirrung et al.	436	518	3/12/92
GB	5,424,186	6/13/95	Fodor et al.	435	6	12/6/91
GC	5,424,188	6/13/95	Schneider et al.	435	6	10/20/92
GD	5,432,099	6/11/95	Ekins	436	518	12/1/92
GE	5,436,327	7/25/95	Southern et al.	536	25.34	3/20/91
GF	5,445,934	8/29/95	Fodor et al.	435	6	9/30/92
GG	5,447,841	9/5/95	Gray et al.	435	6	12/14/90
GH	5,474,796	12/12/95	Brennan	427	2.13	5/27/93
GI	5,486,452	1/23/96	Gordon et al.	435	5	4/10/87
GJ	5,489,507	2/6/96	Chehab	435	6	5/1/91
GK	5,489,678	2/6/96	Fodor et al.	536	22.1	2/16/95
GL	5,492,806	2/20/96	Drmanac et al.	435	5	4/12/93
GM	5,494,810	2/27/96	Barany et al.	435	91.52	11/22/94
GN	5,510,270	4/23/96	Fodor et al.	436	518	9/30/92
GO	5,525,464	6/11/96	Drmanac et al.	435	6	2/28/94
GP	5,527,681	6/18/96	Holmes	435	6	11/5/92
GQ	5,552,270	9/3/96	Khrapko et al.	435	6	11/9/92
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GS	5,561,071	10/1/96	Hollenberg et al.	437	1	9/25/95
GT	5,569,584	10/29/96	Augenlicht	435	6	3/14/94
GU	5,571,639	11/5/96	Hubbell et al.	430	5	5/24/94
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GW	5,599,720	2/4/97	Ekins	436	501	6/17/94
GX	5,604,099	2/18/97	Erlich et al.	435	6	6/1/95
GY	5,643,728	7/1/97	Slater et al.	435	6	2/27/95
GZ	5,653,939	8/5/97	Hollis et al.	422	50	8/7/95
HA	5,667,667	9/16/97	Southern	205	687	7/18/96
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HC	5,695,940	12/9/97	Drmanac et al.	435	6	6/5/95
HD	5,698,393	12/16/97	Macioszek et al.	435	5	8/18/95
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HF	5,707,806	1/13/98	Shuber	435	6	6/7/95



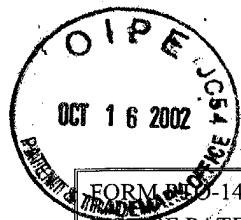
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_____ HG	5,744,305	4/28/98	Fodor et al.	435	6	6/6/95
_____ HH	5,776,737	7/7/98	Dunn	435	91.1	12/22/94
_____ HI	5,777,888	7/7/98	Rine et al.	364	496	8/9/95
_____ HJ	5,800,992	9/1/98	Fodor et al.	435	6	6/25/96
_____ HK	5,807,522	9/15/98	Brown et al.	422	50	6/7/95
_____ HL	5,830,645	11/3/98	Pinkel et al.	435	6	12/9/94
_____ HM	5,843,767	12/1/98	Beattie	435	287.1	4/10/96
_____ HN	5,846,708	12/8/98	Hollis et al.	435	6	4/23/92
_____ HO	5,869,237	2/9/99	Ward et al.	435	6	11/22/94
_____ HP	5,871,697	2/16/99	Rothberg et al.	422	68.1	10/24/95
_____ HQ	5,972,619	10/26/99	Drmanac et al.	435	6	10/22/98
_____ HR	6,018,041	1/25/00	Drmanac et al.	536	24.3	7/29/97
_____ HS	6,025,136	2/15/00	Drmanac et al.	435	6	8/28/97
_____ HT	6,040,166	3/21/00	Erlich et al.	435	194	9/27/94
_____ HU	6,054,270	4/25/00	Southern	435	6	9/9/97

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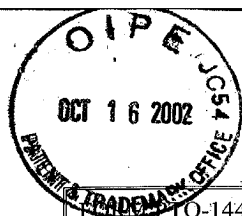
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___ HZ	EP 127 438	12/5/84	Europe			
___ IA	EP 130 523	6/1/88	Europe			
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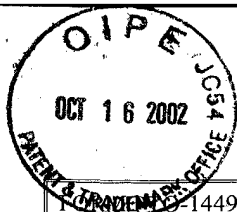
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____ IP	EP 268 237	5/28/88	Europe			
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____ IT	EP 307 476	3/22/89	Europe			
____ IU	EP 319 012	6/7/89	Europe			
____ IV	EP 328 256	8/16/89	Europe			
____ IW	EP 333 561	9/20/89	Europe			
____ IX	EP 337 498	10/18/89	Europe			
____ IY	EP 373 203	6/20/90	Europe			
____ IZ	EP 386 229	4/5/90	Europe			
____ JA	EP 392 546	10/17/90	Europe			
____ JB	EP 476 014	8/31/94	Europe			
____ JC	EP 535 242	9/3/97	Europe			
____ JD	EP 619 321	1/7/99	Europe			
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____ JK	WO 86/00991	2/13/86	WIPO			
____ JL	WO 86/06487	11/6/86	WIPO			
____ JM	WO 88/04777	6/30/88	WIPO			
____ JN	WO 88/01302	6/3/93	WIPO			
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____ JT	WO 89/12819	12/28/89	WIPO			
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____ KA	WO 90/15070	2/13/90	WIPO			



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___ KB	WO 91/00868	1/24/91	WIPO			
___ KC	WO 91/04266	4/4/91	WIPO			
___ KD	WO 91/07087	5/30/91	WIPO			
___ KE	WO 92/10588	6/25/92	WIPO			
___ KF	WO 92/10092	6/25/92	WIPO			
___ KG	WO 92/16655	1/10/92	WIPO			
___ KH	WO 93/02992	2/3/93	WIPO			
___ KI	WO 93/09668	5/27/93	WIPO			
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___ KK	WO 93/17126	9/2/93	WIPO			
___ KL	WO 93/22456	11/11/93	WIPO			
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___ KN	WO 95/00530	1/5/95	WIPO			
___ KO	WO 95/11995	5/4/95	WIPO			
___ KP	WO 95/33846	12/14/95	WIPO			
___ KQ	WO 96/23078	8/1/96	WIPO			
___ KR	WO 97/10365	3/20/97	WIPO			
___ KS	WO 97/17317	5/15/97	WIPO			
___ KT	WO 97/19410	5/29/97	WIPO			
___ KU	WO 97/27317	7/13/97	WIPO			
___ KV	WO 97/29212	8/14/97	WIPO			
___ KW	WO 97/31256	8/28/97	WIPO			
___ KX	WO 97/45559	12/4/97	WIPO			
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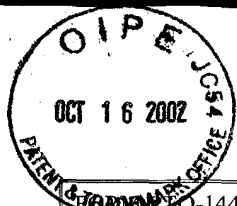


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_____ LM	JP 60-248669	12/9/85	Japan			
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_____ LO	JP 63-223557	9/19/88	Japan			
_____ LP	JP 1-233447	9/19/89	Japan			
_____ LQ	YU 18617/87	9/18/87	Yugoslavia			Yes
_____ LR	YU P-570/87	4/1/87	Yugoslavia			Yes
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
_____ LS	Sequencing by Hybridization Workshop, listing of participants and workshop presentation summaries (1991)					
_____ LT	"A Sequencing Reality Check," <i>Science</i> , 242:1245 (1988)					
_____ LU	"Affymax raises \$25 million to develop high-speed drug discovery system," <i>Biotechnology News</i> , 10(3):7-8 (1990)					
_____ LV	"Preparation of fluorescent-labeled DNA and its use as a probe in molecular hybridization," <i>Bioorg Khim</i> , 12(11):1508-1513 (1986)					
_____ LW	Abbott et al., "Manipulation of the Wettability of Surfaces on the 0.1 – to 1 –Micrometer Scale Through Micromachining and Molecular Self-Assembly," <i>Science</i> , 257:1380-1382 (1992)					
_____ LX	Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," <i>Science</i> , 252(5013):1651-1656 (1991)					
_____ LY	Adams et al., "Photolabile Chelators That "Cage" Calcium with Improved Speed of Release and Pre-Photolysis Affinity," <i>J. Gen. Physiol.</i> , pg. 9a (12/86)					
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_____ MA	Ajayaghosh et al., "Solid-Phase Synthesis of N-Methyl- and N-Ethylamides of Peptides Using Photolytically Detachable ((3-Nitro-4((alkylamino)methyl)benzamido)methyl)polystyrene Resin," <i>J.Org.Chem.</i> , 55(9):2826-2829 (1990)					
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_____ MG	Anand et al., "A 3.5 genome equivalent multi access YAC library: construction, characterisation, screening and storage," <i>Nuc. Acids Res.</i> , 18(8):1951-1956 (1990).					
_____ MH	Anderson et al., "Quantitative Filter Hybridisation," chapter 3 from <i>Nucleic Acid Hybridization a practical approach</i> , pgs. 73-111, Hames et al., eds., IRL Press (1985).					
_____ MI	Applied Biosystems, Model 431A Peptide Synthesizer User's manual, Sections 2 and 6, (8/15/89)					
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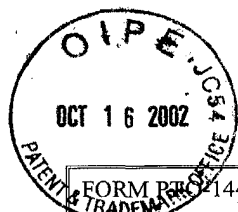


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___ MM	Augenlicht et al., "Expression of Cloned Sequences in Biopsies of Human Colonic Tissue and in Colonic Carcinoma Cells Induced to Differentiate <i>in Vitro</i> ," <u>Cancer Res.</u> , 47:6017-6021 (1987)		
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___ MO	Bains et al., "A Novel Method for Nucleic Acid Sequence Determination," <u>J.Theor.Biol.</u> , 135:303-307 (1988)		
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___ MQ	Balachander et al., "Functionalized Siloxy-Anchored Monolayers with Exposed Amino, Azido, Bromo, or Cyano Groups," <u>Tetrahed. Ltrs.</u> , 29(44):5593-5594 (1988)		
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___ MS	Bannwarth et al., "Laboratory Methods, A System for the Simultaneous Chemical synthesis of Different DNA Fragments on Solid Support," <u>DNA</u> , 5(5):413-419 (1986).		
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___ MU	Barany, F., "Genetic disease detection and DNA amplification using cloned thermostable ligase," <u>PNAS</u> , 88:189-193 (1991).		
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___ MW	Barinaga, M., "Will 'DNA Chip' Speed Genome Initiative," <u>Science</u> , 253:1489 (1985)		
___ MX	Bart et al., "Microfabricated Electrohydrodynamic Pumps," <u>Sensors and Actuators</u> , A21-A23:193-197 (1990)		
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___ MZ	Baum, R., "Fledgling firm targets drug discovery process," <u>Chem. Eng. News</u> , p. 10-11 (1990)		
___ NA	Beltz et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods," <u>Methods in Enzymology</u> , 100:266-285 (1983)		
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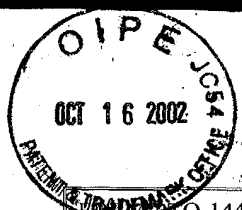




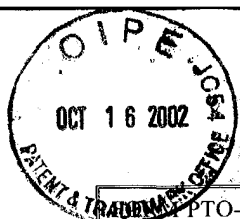
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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicants: Stephen P.A. Fodor, et al.	
		Filing Date: December 28, 2001	Group: 1655
___ NP	Chehab et al., "Detection of sickle cell anaemia mutation by colour DNA amplification," <i>Lancet</i> , 335:15-17 (1990)		
___ NQ	Chehab et al., "Detection of specific DNA sequences by fluorescence amplification: A color complementation assay," <i>PNAS</i> , 86:9178-9182 (1989)		
___ NR	Chetverin et al., "Oligonucleotide Arrays: New Concepts and Possibilities," <i>Biotechnology</i> , 12:1093-1099 (1994).		
___ NS	Church et al., "Multiplex DNA sequencing," <i>Science</i> , 240:185-188 (1988).		
___ NT	Church et al., "Genomic sequencing," <i>PNAS</i> , 81:1991-1995 (1984).		
___ NU	Clevite Corp., Piezoelectric Technology, Data for Engineers		
___ NV	Corbett et al., "Reaction of Nitroso Aromatics with Glyoxylic Acid. A New Path to Hydroxamic Acids," <i>J. Org. Chem.</i> , 45:2834-2839 (1980)		
___ NW	Coulson et al., "Toward a physical map of the genome of the nematode <i>Caenorhabditis elegans</i> ," <i>PNAS</i> , 83:7821-7825 (1986).		
___ NX	Craig et al., "Ordering of cosmid clones covering the Herpes simplex virus type 1 (HSV-1) genome: a test case for fingerprinting by hybridization," <i>Nuc. Acid. Res.</i> , 18(9):2653-2660 (1990)		
___ NY	Cummings et al., "Photoactivable Fluorophores. 1. Synthesis and Photoactivation of o-Nitrobenzyl-Quenched Fluorescent Carbamates," <i>Tetrahedron Letters</i> , 29(1):65-68 (1988)		
___ NZ	Dattagupta et al., "Rapid identification of Microorganisms by Nucleic Acid Hybridization after Labeling the Test Sample," <i>Anal. Biochem.</i> , 177:85-89 (1989).		
___ OA	Dattagupta et al., "Nucleic Acid Hybridization: a Rapid Method for the Diagnosis of Infectious Diseases," <i>Perspectives in Antiinfective Therapy</i> , eds. Jackson et al., pages 241-247 (1988).		
___ OB	Dower et al., "The Search for Molecular Diversity (II): Recombinant and Synthetic Randomized Peptide Libraries," <i>Ann. Rep. Med. Chem.</i> , 26:271-280 (1991).		
___ OC	Diggelmann, "Investigating the VLSIPS synthesis process," 9/9/94		
___ OD	Di Mauro et al., "DNA Technology in Chip Construction," <i>Adv. Mater.</i> , 5(5):384-386 (1993)		
___ OE	Drmanac et al., "An Algorithm for the DNA Sequence Generation from k-Tuple Word Contents of the Minimal Number of Random Fragments," <i>J. Biomol. Struct. Dyn.</i> , 8(5):1085-1102 (1991).		
___ OF	Drmanac et al., "Partial Sequencing by Oligo-Hybridization Concept and Applications in Genome Analysis," 1st Int. Conf. Electrophor., Supercomp., Hum. Genome pgs. 60-74 (1990)		
___ OG	Drmanac et al., "Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Program?," 1st Int. Conf. Electrophor., Supercomp., Hum. Genome pgs. 47-59 (1990)		
___ OH	Drmanac et al., "Laboratory Methods, Reliable Hybridization of Oligonucleotides as Short as Six Nucleotides," <i>DNA and Cell Biol.</i> , 9(7):527-534 (1990)		
___ OI	Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: theory of the Method," <i>Genomics</i> , 4:114-128 (1989)		
___ OJ	Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," abstract of presentation given at Cold Spring Harbor Symposium on Genome Mapping and Sequencing, 4/27/88 thru 5/1/88		
___ OK	Dulcey et al., "Deep UV Photochemistry of Chemisorbed Monolayers: Patterned Coplanar Molecular Assemblies," <i>Science</i> , 252:551-554 (1991)		
___ OL	Duncan et al., "Affinity Chromatography of a Sequence-Specific DNA Binding Protein Using Teflon-Linked Oligonucleotides," <i>Analytical Biochemistry</i> , 169:104-108 (1988)		
___ OM	Effenhauser et al., "Glass Chips for High-speed Capillary Electrophoresis Separations with Submicrometer Plate Heights," <i>Anal. Chem.</i> , 65:2637-2642 (1993)		
___ ON	Effenhauser et al., "High-Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device," <i>Anal. Chem.</i> , 66:2949-2953 (1994)		
___ OO	Ekins et al., "High Specific Activity Chemiluminescent and Fluorescent Markers: their Potential Application to High Sensitivity and 'Multi-analyte' Immunoassays," <i>J. Bioluminescence Chemiluminescence</i> , 4:59-78 (1989)		



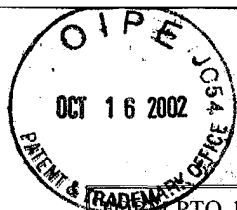
FORM PTO-1449 (Modified)		Attorney Docket No.: 2719.2002-001	Application No.: 10/033,195
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		Filing Date: December 28, 2001	Group: 1655
___ OP	Ekins et al., "Development of Microspot Multi-Analyte Ratiometric Immunoassay Using dual Fluorescent-Labelled Antibodies," <i>Anal. Chimica Acta</i> , 227:73-96 (1989)		
___ OQ	Ekins et al., "Multianalyte Microspot Immunoassay-Microanalytical 'Compact Disk' of the Future," <i>Clin. Chem.</i> , 37(11):1955-1967 (1991)		
___ OR	Ekins, R.P., "Multi-Analyte immunoassay*," <i>J. Pharmaceut. Biomedical Analysis</i> , 7(2):155-168 (1989)		
___ OS	Ekins et al., "Fluorescence Spectroscopy and its Application to a New Generation of High Sensitivity, Multi-Microspot, Multianalyte, Immunoassay," <i>Clin. Chim. Acta</i> , 194:91-114 (1990)		
___ OT	Elder, J.K., "Analysis of DNA Oligonucleotide Hybridization Data by Maximum Entropy," in <i>Maximum Entropy and Bayesian Methods</i> , eds. Mohammad-Djafari and Demoment, Kluwer, Dordrecht, pp. 363-371 (1992).		
___ OU	Ellis, R.W., "The Applications of Synthetic Oligonucleotides to Molecular Biology," <i>Pharmaceutical Research</i> , 3(4):195-207 (1986).		
___ OV	Evans et al., "Microfabrication for Automation of Molecular processes in Human Genome Analysis," <i>Clin. Chem.</i> , 41(11):1681 (1995)		
___ OW	Evans et al., "Physical mapping of complex genomes by cosmid multiplex analysis," <i>PNAS</i> , 86:5030-5034 (1989)		
___ OX	Ezaki et al., "Small-Scale DNA Preparation for Rapid Genetic Identification of <i>Campylobacter</i> Species without Radioisotope," <i>Microbiol. Immunology</i> , 32(2):141-150 (1988)		
___ OY	Fan et al., "Mapping small DNA sequences by fluorescence <i>in situ</i> hybridization directly on banded metaphase chromosomes," <i>PNAS</i> , 87(16):6223-6227 (1990)		
___ OZ	Fan et al., "Micromachining of Capillary Electrophoresis Injectors and Separators on Glass Chips and Evaluation of Flow at Capillary Intersections," <i>Anal. Chem.</i> , 66:177-184 (1994)		
___ PA	Feinberg et al., ADDENDUM to "A technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity," <i>Anal. Biochem.</i> , 137:266-267 (1984).		
___ PB	Fettingner et al., "Stacked modules for micro flow systems in chemical analysis: concept and studies using an enlarged model," <i>Sensors and Actuators</i> , B17:19-25 (1993)		
___ PC	Flanders et al., "A new interferometric alignment technique," <i>App. Phys. Ltrs.</i> , 31(7):426-429 (1977)		
___ PD	Fodor et al., "Multiplexed biochemical assays with biological chips," <i>Nature</i> , 364:555-556 (1993)		
___ PE	Fodor et al., "Light-directed, Spatially Addressable Parallel Chemical Synthesis," <i>Science</i> , 251:767-773 (1991)		
___ PF	Forman et al., "Thermodynamics of Duplex Formation and Mismatch Discrimination on Photolithographically Synthesized Oligonucleotide Arrays," chapter 13pgs. 206-228 from <i>Molecular Modeling of Nucleic Acids</i> , ACS Symposium Series 682, 4/13-17/97, Leontis et al., eds.		
___ PG	Frank et al., "Simultaneous Multiple Peptide Synthesis Under Continuous flow Conditions on Cellulose Paper Discs as Segmental Solid Supports," <i>Tetrahedron</i> , 44(19):6031-6040 (1988)		
___ PH	Frank et al., "Automation of DNA Sequencing Reactions and Related Techniques: A Workstation for Micromanipulation of Liquids," <i>Bio/Technology</i> , 6:1211-1212 (1988)		
___ PI	Frank et al., "Simultaneous Synthesis and Biological Applications of DNA Fragments: An Efficient and Complete Methodology," <i>Methods in Enzymology</i> , 154:221-250 (1987)		
___ PJ	Fuhr et al., "Travelling wave-driven microfabricated electrohydrodynamic pumps for liquids," <i>J. Micromech. Microeng.</i> , 4:217-226 (1994)		
___ PK	Fuller et al., "Urethane-Protected Amino Acid <i>N</i> -Carboxy Anhydrides and Their Use in Peptide Synthesis," <i>J. Amer. Chem. Soc.</i> , 112(20):7414-7416 (1990)		
___ PL	Furka et al., "General method for rapid synthesis of multicomponent peptide mixtures," <i>Int. J. Peptide Protein Res.</i> , 37:487-493 (1991)		
___ PM	Furka et al., "Cornucopia of Peptides by Synthesis," 14th Int. Congress of Biochem. abst.# FR:013, 7/10-15/88 Prague, Czechoslovakia		
___ PN	Furka et al., "More Peptides by Less Labour," abst. 288, Int. Symp. Med. Chem., Budapest Hungary 8/15-19/88		
___ PO	Gait, eds., pages 1-115 from <i>Oligonucleotide Synthesis: A Practical Approach</i> , IRL Press, (1984)		



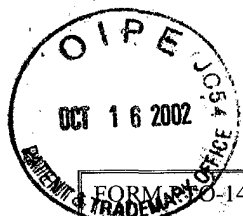
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		Filing Date: December 28, 2001	Group: 1655
___ PP	Gazard et al., "Lithographic Technique Using Radiation-Induced Grafting of Acrylic Acid into Poly(Methyl Methacrylate) Films," <u>Polymer Engineering and Science</u> , 20(16):1069-1072 (1980)		
___ PQ	Gergen et al., "Filter replicas and permanent collections of recombinant DNA plasmids," <u>Nuc.Acids Res.</u> , 7(8):2115-2137 (1979)		
___ PR	Getzoff et al., "Mechanisms of Antibody Binding to a Protein," <u>Science</u> , 235:1191-1196 (1987)		
___ PS	Geysen et al., "Strategies for epitope analysis using peptide synthesis," <u>J. Immunol. Meth.</u> , 102:259-274 (1987)		
___ PT	Geysen et al., "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid," <u>PNAS</u> , 81:3998-4002 (1984)		
___ PU	Geysen et al., "A synthetic strategy for epitope mapping," from <u>Peptides:Chem. &amp; Biol., Proc. of 10th Am. Peptide Symp.</u> , 5/23-28/87, pp. 519-523, (1987)		
___ PV	Geysen, "Antigen-antibody interactions at the molecular level: adventures in peptide synthesis," <u>Immunol. Today</u> , 6(12):364-369 (1985)		
___ PW	Geysen et al., "Cognitive Features of Continuous Antigenic Determinants," from <u>Synthetic Peptides: Approaches to Biological Probes</u> , pp. 19-30, (1989)		
___ PX	Geysen et al., "Chemistry of Antibody Binding to a Protein," <u>Science</u> , 235:1184-1190 (1987)		
___ PY	Geysen et al., "The delineation of peptides able to mimic assembled epitopes," 1986 CIBA Symp., pp. 130-149		
___ PZ	Geysen et al., "Cognitive Features of Continuous Antigenic Determinants," <u>Mol. Recognit.</u> , 1(1):1-10 (1988)		
___ QA	Geysen et al., "A Prio Ri Delineation of a Peptide Which Mimics A Discontinuous Antigenic Determinant," <u>Mol. Immunol.</u> , 23(7):709-715 (1986)		
___ QB	Ghosh et al., "Covalent attachment of oligonucleotides to solid supports," <u>Nuc. Acids Res.</u> , 15(13):5353-5373 (1987).		
___ QC	Gilon et al., "Backbone Cyclization: A New Method for Conferring Conformational Constraint on Peptides," <u>Biopolymers</u> , 31(6):745-750 (1991)		
___ QD	Gingeras et al., "Hybridization properties of immobilized nucleic acids," <u>Nuc. Acids Res.</u> , 15(13):5373-5390 (87)		
___ QE	Gummerlock et al., "RAS Enzyme-Linked Immunoblot Assay Discriminates p21 Species: A Technique to Dissect Gene Family Expression," <u>Anal. Biochem.</u> , 180:158-168 (1989)		
___ QF	Gurney et al., "Activation of a potassium current by rapid photochemically generated step increases of intracellular calcium in rat sympathetic neurons," <u>PNAS</u> , 84:3496-3500 (1987)		
___ QG	Haase et al., "Detection of Two Viral Genomes in Single Cells by Double-Label Hybridization in Situ and Color Microradioautography," <u>Science</u> , 227:189-192 (1985)		
___ QH	Hacia, et al., "Two color hybridization analysis using high density oligonucleotide arrays and energy transfer dyes," <u>Nuc. Acids Res.</u> , 26(16):3865-3866 (1998)		
___ QI	Hack, M.L., "Conics Formed to Make Fluid & Industrial Gas Micromachines," <u>Genetic Engineering News</u> , 15(18):1, 29 (1995)		
___ QJ	Hagedorn et al., "Pumping of Water Solutions in Microfabricated Electrohydrodynamic Systems," from <u>Micro Electro Mechanical Systems conference in Travemunde Germany</u> (1992)		
___ QK	Hames et al., <u>Nuclear acid hybridization, a practical approach</u> , cover page and table of contents (1985)		
___ QL	Hanahan et al., "Plasmid Screening at High Colony Density," <u>Meth. Enzymology</u> , 100:333-342 (1983)		
___ QM	Hanahan et al., "Plasmid screening at high colony density," <u>Gene</u> , 10:63-67 (1980)		
___ QN	Haridasan et al., "Peptide Synthesis using Photolytically Cleavable 2-Nitrobenzyloxycarbonyl Protecting Group," <u>Proc. Indian Natn. Sci. Adad.</u> , 53A(6):717-728 (1987)		
___ QO	Harrison et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip," <u>Anal. Chem.</u> , 64:1926-1932 (1992)		
___ QP	Harrison et al., "Micromachining a Minaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <u>Science</u> , 261:895-897 (1993)		



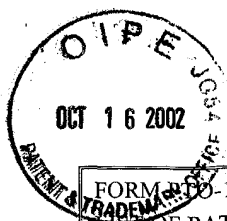
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___ QQ	Harrison et al., "Towards minaturized electrophoresis and chemical analysis systems on silicon: an alternative to chemical sensors*," <u>Sensors and Actuators</u> , B10:107-116 (1993)		
___ QR	Harrison et al., "Rapid separation of fluorescein derivatives using a micromachined capillary electrophoresis system," <u>Analytica Chimica Acta</u> , 283:361-366 (1993)		
___ QS	Hellberg et al., "Minimum analogue peptide sets (MAPS) for quantitative structure-activity relationships," <u>Int. J. Peptide Protein Res.</u> , 37:414-424 (1991)		
___ QT	Hilser et al., "Protein and peptide mobility in capillary zone electrophoresis, A comparison of existing models and further analysis," <u>J. Chromatography</u> , 630:329-336 (1993)		
___ QU	Ho et al., "Highly Stable Biosensor Using an Artificial Enzyme," <u>Anal.Chem.</u> , 59:536-537 (1987)		
___ QV	Hochgeschwender et al., "Preferential expression of a defined T-cell receptor $\beta$ -chain gene in hapten-specific cytotoxic T-cell clones," <u>Nature</u> , 322:376-378 (1986)		
___ QW	Hodgson, J., "Assays A La Photolithography," <u>Biotech.</u> , 9:419 (1991)		
___ QX	Hodgson et al., "Hybridization probe size control: optimized 'oligolabelling'," <u>Nuc.Acids Res.</u> , 15(15):6295 (1987).		
___ QY	Hopman et al., "Bi-color detection of two target DNAs by non-radioactive in situ hybridization*," <u>Histochem.</u> , 85:1-4 (1986)		
___ QZ	Iwamura et al., "1-Pyrenylmethyl Esters, Photolabile Protecting Groups for Carboxylic Acids," <u>Tetrahedron Ltrs.</u> , 28(6):679-682 (1987)		
___ RA	Iwamura et al., "1-( $\alpha$ -Diazobenzyl)pyrene: A Reagent for Photolabile and Fluorescent Protection of Carboxyl Groups of Amino Acids and Peptides," <u>Synlett</u> , p. 35-36 (1991)		
___ RB	Jacobson et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," <u>Anal. Chem.</u> , 66:1107-1113 (1994)		
___ RC	Jacobsen et al., "Open Channel Electrochromatography on a Microchip," <u>Anal. chem.</u> , 66:2369-2373 (1994)		
___ RD	Jacobson et al., "Microchip Capillary Electrophoresis with an Integrated Postcolumn Reactor" <u>Anal. Chem.</u> , 66:3472-3476 (1994)		
___ RE	Jacobson et al., "Precolumn Reactions with Electrophoretic Analysis Integrated on a Microchip," <u>Anal. Chem.</u> , 66:4127-4132 (1994)		
___ RF	Jacobson et al., "Microfabricated chemical measurement systems," <u>Nature Medicine</u> , 1(10):1093-1096 (1995)		
___ RG	Jacobsen et al., "Fused Quartz Substrates for Microchip Electrophoresis," <u>Anal. chem.</u> , 67:2059-2063 (1995)		
___ RH	Jacobson et al., "High-Speed Separations on a Microchip," <u>Anal. Chem.</u> , 66:1114-1118 (1994)		
___ RI	Jacobson et al., "Microchip electrophoresis with sample stacking," <u>Electrophoresis</u> , 16:481-486 (1995)		
___ RJ	Jayakumari, "Peptide synthesis in a triphasic medium catalysed by papain immobilized on a crosslinked polystyrene support," <u>Indian J. Chemistry</u> , 29B:514-517 (1990)		
___ RK	Jovin et al., "Luminescence Digital Imaging Microscopy," <u>Ann. Rev. Biophys. Biophys. Chem.</u> , 18:271-308 (1989).		
___ RL	Kafatos et al., "Determination of nucleic acid sequence homologies and relative concentrations by a dot hybridization procedure," <u>Nuc. Acids Res.</u> , 7(6):1541-1553 (1979).		
___ RM	Kaiser et al., "Peptide and Protein Synthesis by Segment Synthesis-Condensation," <u>Science</u> , 243:187-192 (1989)		
___ RN	Kaplan et al., "Photolabile chelators for the rapid photorelease of divalent cations," <u>PNAS</u> , 85:6571-6575 (1988)		
___ RO	Karube, "Micro-biosensors based on silicon fabrication technology," chapter 25 from <u>Biosensors:Fundamentals and Applications</u> , Turner et al., eds., Oxford Publ., 1987, pgs. 471-480 (1987)		
___ RP	Kates et al., "A Novel, Convenient, Three-dimensional Orthogonal Strategy for Solid-Phase Synthesis of Cyclic Peptides 1-3," <u>Tetrahed. Letters</u> , 34(10):1549-1552 (1993)		
___ RQ	Kerkof et al., "A Procedure for Making Simultaneous Determinations of the Relative Levels of Gene Transcripts in Tissues or Cells," <u>Anal. Biochem.</u> , 188:349-355 (1990)		



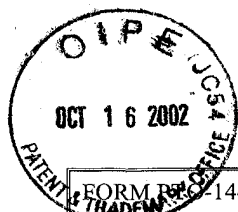
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RR	Khrapko et al., "An Oligonucleotide hybridization approach to DNA sequencing," <u>FEBS Lett.</u> , 256(1,2):118-122 (1989)		
RS	Khrapko et al., "A method for DNA sequencing by hybridization with oligonucleotide matrix," <u>DNA Seq. Map.</u> , 1:375-388 (1991).		
RT	Kidd et al., " $\alpha_1$ -Antitrypsin deficiency detection by direct analysis of the mutation in the gene," <u>Nature</u> , 304:230-234 (1983).		
RU	Kievits et al., "Rapid subchromosomal localization of cosmid by nonradioactive in situ hybridization," <u>Cytogenetics Cell Genetics</u> , 53(2-3):134-136 (1990)		
RV	Kimura et al., "An Immobilized Enzyme Membrane Fabrication Method using an Ink Jet Nozzle," <u>Biosensors</u> , 4:41-52 (1988)		
RW	Kimura et al., "An Integrated SOS/FET Multi-Biosensor," <u>Sensors &amp; Actuators</u> , 9:373-387 (1986)		
RX	Kitazawa et al., "In situ DNA-RNA hybridization using in vivo bromodeoxyuridine-labeled DNA probe," <u>Histochemistry</u> , 92:195-199 (1989)		
RY	Kleinfeld et al., "Controlled Outgrowth of Dissociated Neurons on Patterned Substrates," <u>J. Neurosci.</u> , 8(11):4098-4120 (1988)		
RZ	Knight, P., "Materials and Methods/Microsequencers for Proteins and Oligosaccharides," <u>Bio/Tech.</u> , 7:1075-76 (1989)		
SA	Kohara et al., "The Physical Map of the Whole E. coli Chromosome: Application of a New Strategy for Rapid Analysis and Sorting of a Large Genomic Library," <u>Cell</u> , 50:495-508 (1987)		
SB	Krile et al., "Multiplex holography with chirp-modulated binary phase-coded reference-beam masks," <u>Applied Opt.</u> , 18(1):52-56 (1979)		
SC	Labat, I., "Subfragments as an informative characteristic of the DNA molecule - computer simulation," research report submitted to the University of Belgrade College of Natural Sciences and Mathematics, (1988)		
SD	Lander et al., "Genomic Mapping by Fingerprinting Random Clones: A Mathematical Analysis," <u>Genomics</u> , 2:231-239 (1988).		
SE	Lainer et al., "Human Lymphocyte Subpopulations Identified by Using Three-Color Immunofluorescence and Flow Cytometry Analysis: Correlation of Leu-2, Leu-3, Leu-7, Leu-8, and Leu-11 Cell Surface Antigen Expression," <u>Journal of Immunology</u> , 132(1):151-156 (1984)		
SF	Lam et al., "A new type of synthetic peptide library for identifying ligand-binding activity," <u>Nature</u> , 354:82-84 (1991)		
SG	Laskey et al., "Messenger RNA prevalence in sea urchin embryos measured with cloned cDNAs," <u>PNAS</u> , 77(9):5317-5321 (1980)		
SH	Lee et al., "synthesis of a Polymer Surface Containing Covalently Attached Triethoxysilane Functionality: Adhesion to Glass," <u>Macromolecules</u> , 21:3353-3356 (1988)		
SI	Lehrach et al., "Labelling oligonucleotides to high specific activity (I)," <u>Nuc. Acids Res.</u> , 17(12):4605-4610 (89)		
SJ	Lehrach et al., "Phage Vectors - EMBL Series," <u>Meth. Enzymology</u> , 153:103-115 (1987)		
SK	Lehrach et al., "Hybridization Fingerprinting in Genome Mapping and Sequencing," <u>Genome Analysis Volume 1: Genetic and Physical Mapping</u> , Cold Spring Harbor Laboratory Press, pages 39-81 (1990).		
SL	Levy, M.F., "Preparing Additive Printed Circuits," <u>IBM Tech. Discl. Bull.</u> , 9(11):1473 (1967)		
SM	Lewin, Benjamin, eds., <u>Genes</u> , third edition, John Wiley & Sons, cover page, preface and table of contents, (1987).		
SN	Lichter et al., "High-Resolution Mapping of Human Chromosome 11 by in Situ hybridization with Cosmid Clones," <u>Science</u> , 247:64-69 (1990)		
SO	Lichter et al., "Fluorescence <i>in situ</i> hybridization with <i>Alu</i> and L1 polymerase chain reaction probes for rapid characterization of human chromosomes in hybrid cell lines," <u>PNAS</u> , 87:6634-6638 (1990)		
SP	Lichter et al., "Rapid detection of human chromosome 21 aberrations by <i>in situ</i> hybridization," <u>PNAS</u> , 85:9664-9668 (1988)		
SQ	Lichter et al., "Is non-isotopic <i>in situ</i> hybridization finally coming of age," <u>Nature</u> , 345:93-94 (1990)		



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		Filing Date: December 28, 2001	Group: 1655
SR	Lieberman et al., "A Light source Smaller Than the Optical Wavelength," <u>Science</u> , 247:59-61 (1990)		
SS	Lipshutz et al., "Using Oligonucleotide Probe Arrays To Access Genetic Diversity," <u>BioTech.</u> , 19(3):442-7 (1995)		
ST	Little, P., "Clone maps made simple," <u>Nature</u> , 346:611-612 (1990).		
SU	Liu et al., "Sequential Injection Analysis in Capillary Format with an Electroosmotic Pump," <u>Talanta</u> , 41(11):1903-1910 (1994)		
SV	Lockhart et al., "Expression monitoring by hybridization to high-density oligonucleotide arrays," <u>Nat. Biotech.</u> , 14:1675-1680 (1996)		
SW	Logue et al., "General Approaches to Mask Design for Binary Optics," <u>SPIE</u> , 1052:19-24 (1989)		
SX	Loken et al., "three-color Immunofluorescence Analysis of Leu Antigens on Human Peripheral Blood Using Two Lasers on a Fluorescence-Activated Cell Sorter," <u>Cytoetry</u> , 5:151-158 (1984)		
SY	Love et al., "Screening of $\lambda$ Library for Differentially Expressed Genes Using <i>in Vitro</i> Transcripts," <u>Anal. Biochem.</u> , 150:429-441 (1985)		
SZ	Lowe, C.R., "Biosensors," <u>Trends in Biotech.</u> , 2:59-65 (1984)		
TA	Lowe, C.R., "An Introduction to the Concepts and Technology of Biosensors," <u>Biosensors</u> , 1:3-16 (1985)		
TB	Lowe, C. R., <u>Biotechnology and Crop Improvement and Protection</u> , BCPC Publications, pp. 131-138 (1986)		
TC	Lowe et al., "Solid-Phase Optoelectronic Biosensors," <u>Methods in Enzymology</u> , 137:338-347 (1988)		
TD	Lowe, C.R., "Biosensors," <u>Phil. Tran. R. Soc. Lond.</u> , 324:487-496 (1989)		
TE	Lu et al., "Differential screening of murine ascites cDNA libraries by means of <i>in vitro</i> transcripts of cell-cycle-phase-specific cDNA and digital image processing," <u>Gene</u> , 86:185-192 (1990)		
TF	Luo, J. et al., "Improving the fidelity of <i>Thermus thermophilus</i> DNA ligase," <u>Nuc.Acids Res.</u> , 24(14):3071-3078 (1996).		
TG	Lysov et al., "A new method for determining the DNA nucleotide sequence by hybridization with oligonucleotides," <u>Doklady Biochem.</u> , 303(1-6):436-438 (1989)		
TH	Lysov et al., "DNA Sequencing by Oligonucleotide Hybridization," First International Conference on Electrophoresis, Supercomputing and the Human Genome, 4/10-13/90 p.157		
TI	MacDonald et al., "A Rapid ELISA for Measuring Insulin in a Large Number of Research Samples," <u>Metabolism</u> , 38(5):450-452 (1989)		
TJ	Mairanovsky, V.G., "Electro-Deprotection- Electrochemical Removal of Protecting Groups**," <u>Agnew. Chem. Int. Ed. Engl.</u> , 15(5):281-292 (1976)		
TK	Manz et al., "Miniaturized Total Chemical Analysis Systems: a Novel Concept for Chemical Sensing," <u>Sensors and Actuators</u> , B1:244-248 (1990)		
TL	Manz et al., "Micromachining of monocrystalline silicon and glass for chemical analysis systems, A look into next century's technology or just a fashionable craze?," <u>Trends in Analytical Chem.</u> , 10(5):144-149 (1991)		
TM	Manz et al., "Planar chips technology for minaturization and integration of separation techniques into monitoring systems, Capillary electrophoresis on a chip," <u>J. Chromatography</u> , 593:253-258 (1992)		
TN	Manz et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring," chapter 1, 1-64 (1993)		
TO	Manz et al., "Electroosmotic pumping and electrophoretic separations for minaturized chemical analysis systems," <u>J. Micromech. Microeng.</u> , 4:257-265 (1994)		
TP	Masiakowski et al., "Cloning of cDNA sequences of hormone-regulated genes from the MCF-7 human breast cancer cell line," <u>Nuc. Acids Res.</u> , 10(24):7895-7903 (1982)		
TQ	Matsumoto et al., "Preliminary Investigation of Micropumping Based on Electrical Control of Interfacial Tension," <u>IEEE</u> , pgs. 105-110 (1990)		
TR	Matsuzawa et al., "Containment and growth of neuroblastoma cells on chemically patterned substrates," <u>J. Neurosci. Meth.</u> , 50:253-260 (1993)		

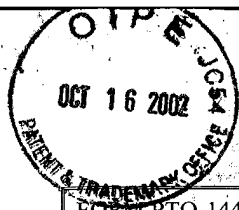


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		Filing Date: December 28, 2001	Group: 1655
____ TS	Matthes et al., "Simultaneous rapid chemical synthesis of over one hundred oligonucleotides on a microscale," <u>EMBO J.</u> , 3(4):801-805 (1984).		
____ TT	McCray et al., "Properties and Uses of Photoreactive Caged Compounds," <u>Ann. Rev. Biophys. Biophys. Chem.</u> , 18:239-270 (1989)		
____ TU	McGall et al., "The Efficiency of Light-Directed Synthesis of DNA Arrays on Glass Substrates," <u>J. American Chem. Soc.</u> , 119(22):5081-5090 (1997)		
____ TV	McGillis, VLSI Technology, Sze, eds., Chapter 7, "Lithography," pp. 267-301 (1983)		
____ TW	McMurray, J.S., "Solid Phase Synthesis of a Cyclic Peptide Using Fmoc Chemistry," <u>Tetrahedron Letters</u> , 32(52):7679-7682 (1991)		
____ TX	Meinkoth et al., "Review: Hybridization of Nucleic Acids Immobilized on solid Supports," <u>Analytical Biochem.</u> , 138:267-284 (1984)		
____ TY	Melcher et al., "Traveling-Wave Bulk Electroconvection Induced across a Temperature Gradient," <u>Physics of Fluids</u> , 10(6):1178-1185 (1967)		
____ TZ	Merrifield, R.B., "Solid Phase peptide Synthesis. I. The Synthesis of a Tetrapeptide," <u>J. Am. Chem. Soc.</u> , 85:2149-2154 (1963)		
____ UA	Michiels et al., "Molecular approaches to genome analysis: a strategy for the construction of ordered overlapping clone libraries," <u>CABIOS</u> , 3(3):203-10 (1987)		
____ UB	Mirzabekov, A.D., "DNA sequencing by hybridization - a megasequencing method and a diagnostic tool?," <u>TIBTECH</u> , 12:27-32 (1994)		
____ UC	Miyada et al., "Oligonucleotide Hybridization Techniques," <u>Meth. Enzymology</u> , 154:94-107 (1987).		
____ UD	Monaco et al., "Human Genome Linking with Cosmids and Yeast Artificial Chromosomes", abstract from CSHS, pg. 50, (1989)		
____ UE	Morita et al., "Direct pattern fabrication on silicone resin by vapor phase electron beam polymerization," <u>J. Vac. Sci. Technol.</u> , B1(4):1171-1173 (1983)		
____ UF	Morrison et al., "Solution-Phase Detection of Polynucleotides Using Interacting Fluorescent Labels and Competitive Hybridization," <u>Anal. Biochem.</u> , 183:231-244 (1989)		
____ UG	Munegumi et al., "thermal Synthesis of Polypeptides from N-Boc-Amino Acid (Aspartic Acid, $\beta$ -Aminoglutaric Acid) Anhydrides," <u>Chem. Letters</u> , pgs. 1643-1646 (1988)		
____ UH	Mutter et al., "Impact of Conformation on the Synthetic Strategies for Peptide Sequences," pgs. 217-228 from Chemistry of Peptides and Proteins, Vol. 1, Proceedings of the Third USSR-FRG Symp., in USSR (1982)		
____ UI	Nakamori et al., "A Simple and Useful Method for Simultaneous Screening of Elevated Levels of Expression of a Variety of Oncogenes in Malignant Cells," <u>Jpn. J. Cancer Res.</u> , 79:1311-1317 (1988)		
____ UJ	Nederlof et al., "Multiple Fluorescence In Situ Hybridization," <u>Cytometry</u> , 11:126-131 (1990)		
____ UK	Nederlof et al., "Three-Color Fluorescence In Situ Hybridization for the Simultaneous Detection of Multiple Nucleic Acid Sequences," <u>Cytometry</u> , 10:20-27 (1989).		
____ UL	Nizetic et al., "An improved bacterial colony lysis procedure enables direct DNA hybridisation using short (10, 11 bases) oligonucleotides to cosmids," <u>Nuc. Acids Res.</u> , 19(1):182 (1990).		
____ UM	Nizetic et al., "Construction, arraying, and high-density screening of large insert libraries of human chromosomes X and 21: their potential use as reference libraries," <u>PNAS</u> , 88:3233-3237 (1991).		
____ UN	Nyborg, W., "Acoustic Streaming," chapter 11 pgs. 265-329 from Physical Acoustics, Principles and Methods, Mason, eds., vol. II, part B, Academic Press, New York and London (1965)		
____ UO	Ocvirk et al., "High Performance Liquid Chromatography Partially Integrated onto a Silicon Chip," <u>Analyt. Meth. Instrumentation</u> , 2(2):74-82 (1995)		
____ UP	Ohtsuka et al., "Studies on transfer ribonucleic acids and related compounds. IX Ribonucleic oligonucleotide synthesis using a photosensitive 0-nitrobenzyl protection at the 2' -hydroxyl group," <u>Nuc. Acids Res.</u> , 1(10):1351-1357 (1974)		
____ UQ	Olefirowicz et al., "Capillary Electrophoresis for Sampling Single Nerve Cells," <u>Chimia</u> , 45(4):106-108 (1991)		

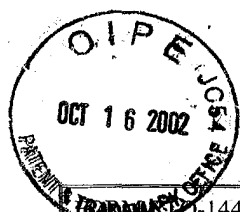


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		Filing Date: December 28, 2001	Group: 1655
___ UR	Olson et al., "Random-clone strategy for genomic restriction mapping in yeast," <u>PNAS</u> , 83:7826-7830 (1986).		
___ US	Patchornik et al., "Photosensitive Protecting Groups," <u>J. Am. Chem. Soc.</u> , 92(21):6333-6335 (1970)		
___ UT	Patent Abstracts of Japan from EPO, Abst. 13:557, JP 1-233 447 (1989)		
___ UU	Pease et al., "Light-generated oligonucleotide arrays for rapid DNA sequence analysis," <u>PNAS</u> , 91:5022-26 (1994)		
___ UV	Pevzner, P.A., "DNA Physical Mapping and Alternating Eulerian Cycles in Colored Grapes," <u>Algorithmica</u> , 13(1-2):77-105 (1995).		
___ UW	Pevzner et al., "Multiple Filtration and Approximate Pattern Matching," <u>Algorithmica</u> , 13(1-2):135-154 (1995).		
___ UX	Pevzner et al., "Generalized Sequence Alignment and Duality," <u>Adv. Applied Math.</u> , 14:139-171 (1993).		
___ UY	Pevzner, P.A., "1-Tuple DNA Sequencing: Computer Analysis," <u>J. Biomol. Struct. Dynam.</u> , 7(1):63-69 (1989)		
___ UZ	Pfahler et al., "Liquid Transport in Micron and Submicron Channels," <u>Sensors and Actuators</u> , A21-A23:431-4 (90)		
___ VA	Pfeifer et al., "Genomic Sequencing and Methylation Analysis by Ligation Mediated PCR," <u>Science</u> , 246:810-813 (1989).		
___ VB	Pidgeon et al., "Immobilized Artificial Membrane Chromatography: Supports Composed of Membrane Lipids," <u>Anal. Biochem.</u> , 176:36-47 (89)		
___ VC	Pillai, V.N., "Photoremovable Protecting Groups in Organic Synthesis," <u>Synthesis</u> , pgs. 1-26 (1980)		
___ VD	Pillai et al., "3-Nitro-4-Aminomethylbenzoyl-derivate von Polyethylenglykolen: Eine neue Klasse von Photosensitiven loslichen Polymeren Tragern zur Synthese von C-terminalen Peptidamiden," <u>Tetrah. Ltr.</u> , # 36 p. 3409-3412 (1979)		
___ VE	Pillai et al., "Synthetic Hydrophilic Polymers, Biomedical and Chemical Applications," <u>Naturwissenschaften</u> , 68:558-566 (1981)		
___ VF	Pirung et al., "Proofing of Photolithographic DNA Synthesis with 3'.5'-Dimethoxybenzoinyloxycarbonyl-Protected Deoxynucleoside Phosphoramidites," <u>J. Org. Chem.</u> , 63(2):241-246 (1998)		
___ VG	Pirung et al., "Comparison of Methods for Photochemical Phosphoramidite-Based DNA Synthesis," <u>J. Org. Chem.</u> , 60:6270-6276 (1995)		
___ VH	Ploax et al., "Cyclization of peptides on a solid support," <u>Int. J. Peptide Protein Research</u> , 29:162-169 (1987)		
___ VI	Polsky-Cynkin et al., "Use of DNA Immobilized on Plastic and Agarose Supports to Detect DNA by Sandwich Hybridization," <u>Clin. Chem.</u> , 31(9):1428-1443 (1985)		
___ VJ	Poustka et al., "Molecular Approaches to Mammalian Genetics," Cold Spring Harbor Symposia on Quantitive Biology, 51:131-139 (1986)		
___ VK	Purushothaman et al., "Synthesis of 4,5-diarylimidazoline-2-thiones and their photoconversion to bis(4,5-diarylimidazol-2-yl) sulphides," <u>Ind. J. Chem.</u> , 29B:18-21 (1990)		
___ VL	Quesada et al., "High-Sensitivity DNA Detection with a Laser-Exited Confocal Fluorescence Gel Scanner," <u>Biotechniques</u> , 10:616 (1991)		
___ VM	Reichmanis et al., <u>J. Polymer Sci. Polymer Chem. Edition</u> , 23:1-8 (1985)		
___ VN	Renz et al., "A colorimetric method for DNA hybridization," <u>Nuc. Acids Res.</u> , 12(8):3435-3445 (1984).		
___ VO	Richter et al., "An Electrohydrodynamic Micropump," <u>IEEE</u> , pgs. 99-104 (1990)		
___ VP	Richter et al., "Electrohydrodynamic Pumping and Flow Measurement," <u>IEEE</u> , pgs. 271-276 (1991)		
___ VQ	Richter et al., "A Micromachined electrohydrodynamic (EHD) pump," <u>Sensors and Actuators</u> , A29:159-168 (91)		
___ VR	Robertson et al., "A General and Efficient Route for Chemical Aminoacylation of Transfer RNAs," <u>J. Am. Chem. Soc.</u> , 113:2722-2729 (1991).		
___ VS	Rodda et al., "The Antibody Response to Myoglobin-I. Systematic Synthesis of Myoglobin Peptides Reveals Location and Substructure of Species-Dependent Continuous Antigenic Determinants," <u>Mol. Immunol.</u> , 23(6):603-610 (1986)		
___ VT	Rodgers, R.P., "Data Processing of Immunoassay Results," Manual of Clin. Lab. Immunol., 3rd ed., ch. 15, pgs. 82-87 (1986)		

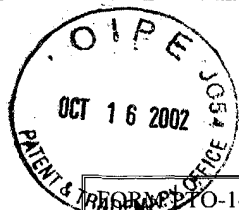




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____ VU	Rose, D.J., "Free-solution reactor for post-column fluorescence detection in capillary zone electrophoresis," <u>J. Chromatography</u> , 540:343-353 (1991)		
____ VV	Rovero et al., "Synthesis of Cyclic Peptides on solid Support," <u>Tetrahed. Letters</u> , 32(23):2639-2642 (1991)		
____ VW	Sambrook, Molecular Cloning - A Laboratory Manual, publ. in 1989 (not included)		
____ VX	Saiki et al., "Genetic analysis of amplified DNA with immobilized sequence-specific oligonucleotide probes," <u>PNAS</u> , 86:6230-6234 (1989)		
____ VY	Saiki et al., "Analysis of enzymatically amplified $\beta$ -globin and HLA-DQ $\alpha$ DNA with Allele-specific oligonucleotide probes," <u>Nature</u> , 324:163-166 (1986)		
____ VZ	Schafer et al., "DNA fingerprinting using non-radioactive oligonucleotide probes specific for simple repeats," <u>Nuc. Acids Res.</u> , 16(19):9344 (1988).		
____ WA	Scharf et al., "HLA class II allelic variation and susceptibility to pemphigus vulgaris," <u>PNAS</u> , 85(10):3504-3508 (1988)		
____ WB	Schena et al., "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes," <u>PNAS</u> , 93:10614-10619 (1996).		
____ WC	Schuup et al., "Mechanistic Studies of the Photorearrangement of o-Nitrobenzyl Esters," <u>J. Photochem.</u> , 36:85-97 (1987)		
____ WD	Seed, B., "Diazotizable arylamine cellulose papers for the coupling and hybridization of nucleic acids," <u>Nuc. Acids Res.</u> , 10(5):1799-1810 (1982).		
____ WE	Seiler et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> , 65:1481-1488 (1993)		
____ WF	Seller et al., "Electroosmotic Pumping and Valveless Control of Fluid Flow within a Manifold of Capillaries on a Glass Chip," <u>Anal. Chem.</u> , 66:3485-3491 (1994)		
____ WG	Sammelhack et al., "Selective Removal of Protecting Groups Using Controlled Potential Electrolysis," <u>J. Am. Chem. Society</u> , 94(14):5139-5140 (1972)		
____ WH	Sheldon et al., "Matrix DNA Hybridization," <u>Clinical Chemistry</u> , 39(4):718-719 (1993)		
____ WI	Shin et al., "Dehydrooligonopeptides. XI. Facile Synthesis of Various Kinds of Dehydrodi- and tripeptides, and Dehydroenkephalins Containing Tyr Residue by Using N-Carboxydehydrotyrosine Anhydride," <u>Bull. Chem. Soc. Jpn.</u> , 62:1127-1135 (1989)		
____ WJ	Sim et al., "Use of a cDNA Library for Studies on Evolution and Developmental Expression of the Chorion Multigene Families," <u>Cell</u> , 18:1303-1316 (1979)		
____ WK	Smith et al., "A Novel Method for Delineating Antigenic Determinants: Peptide Synthesis and Radioimmunoassay Using the Same Solid Support," <u>Immunochemistry</u> , 14:565-568 (1977)		
____ WL	Sofia, M.J., "Carbohydrate-based combinatorial libraries," <u>Molecular Diversity</u> , 3:75-94 (1998).		
____ WM	Southern et al., "Report on the Sequencing by Hybridization Workshop," <u>Genomics</u> , 13:1378-1383 (1992)		
____ WN	Southern et al., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridization properties of oligonucleotides synthesized <i>in situ</i> ," <u>Nuc. Acids Res.</u> , 20(7):1679-1684 (1992)		
____ WO	Southern et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Models," <u>Genomics</u> , 13:1008-10017 (1992).		
____ WP	Southern, E.M., "Detection of Specific Sequences Among DNA Fragments Separated by Gel Electrophoresis," <u>J. Mol. Biol.</u> , 98:503-517 (1975).		
____ WQ	Stemme et al., "A valveless diffuser/nozzle-based fluid pump," <u>Sensors and Actuators</u> , A39:159-167 (1993)		
____ WR	Stryer, L., "DNA Probes and Genes Can be Synthesized by Automated Solid-Phase Methods," from <u>Biochemistry</u> , Third Edition, published by W.H. Freeman & Co., (1988)		
____ WS	Stuber et al., "Synthesis and photolytic cleavage of bovine insulin B22-30 on a nitrobenzoylglycyl-poly (ethylene glycol) support," <u>Int. J. Peptide Protein Res.</u> , 22(3):277-283 (1984)		
____ WT	Sundberg et al., "Spatially-Addressable Immobilization of Macromolecules on Solid Supports," <u>J. Am. Chem. Soc.</u> , 117(49):12050-12057 (1995)		



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WU	Swedberg, S.A., "Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis, An apparent micellar electrokinetic capillary chromatography mechanism," <u>J. Chromatography</u> , 503:449-452 (1990)		
WV	Thomas, P.S., "Hybridization of denatured RNA and small DNA fragments transferred to nitrocellulose," <u>PNAS</u> , 77(9):5201-5205 (1980).		
WW	Titus et al., "Texas Red, a Hydrophilic, red-emitting fluorophore for use with fluorescein in dual parameter flow microfluorometric and fluorescence microscopic studies," <u>J. Immunol. Meth.</u> , 50:193-204 (1982)		
WX	Tkachuk et al., "Detection of <i>bcrl-abl</i> Fusion in chronic Myelogenous Leukemia by in situ Hybridization," <u>Science</u> , 250:559-562 (90)		
WY	Trzeciak et al., "Synthesis of 'Head-to-Tail' Cyclized Peptides on Solid Support by Fmoc Chemistry," <u>Tetrahed. Letters</u> , 33(32):4557-4560 (1992)		
WZ	Tsien et al., "Control of Cytoplasmic Calcium with Photolabile Tetracarboxylate 2-Nitrobenzhydryl Chelators," <u>Biophys. J.</u> , 50:843-853 (1986)		
XA	Tsutsumi et al., "Expression of L- and M- Type Pyruvate Kinase in Human Tissues," <u>Genomics</u> , 2:86-89 (1988)		
XB	Turchinskii et al., "Multiple Hybridization in Genome Analysis, Reaction of Diamines and Bisulfate with Cytosine for Introduction of Nonradioactive labels Into DNA," <u>Molecular Biology</u> , 22:1229-1235 (1988)		
XC	Turner et al., "Photochemical Activation of Acylated $\alpha$ -Thrombin," <u>J. Am. Chem. Soc.</u> , 109:1274-1275 (1987)		
XD	Urdea et al., "A novel method for the rapid detection of specific nucleotide sequences in crude biological samples without blotting or radioactivity; application to the analysis of hepatitis B virus in human serum," <u>Gene</u> , 61:253-264 (1987)		
XE	Urdea et al., "A comparison of non-radioisotopic hybridization assay methods using fluorescent, chemiluminescent and enzyme labeled synthetic oligodeoxyribonucleotide probes," <u>Nuc. Acids Res.</u> , 16(11):4937-4956 (1988)		
XF	Van der Voort et al., "Design and Use of a Computer Controlled Confocal Microscope for Biological Applications," <u>Scanning</u> , 7(2):66-78 (1985)		
XG	Van Hijfte et al., "Intramolecular 1,3-Diyl Trapping Reactions. A Formal Total Synthesis of -Coriolin," <u>J. Organic Chemistry</u> , 50:3942-3944 (1985)		
XH	Veldkamp, W.B., "Binary optics: the optics technology of the 1990s," <u>CLEO 90</u> , Vol. 7, paper # CMG6 (1990)		
XI	Verlaan-de Vries et al., "A dot-blot screening procedure for mutated <i>ras</i> oncogenes using synthetic oligodeoxynucleotides," <u>Gene</u> , 50:313-320 (1986)		
XJ	Verpoorte et al., "Three-dimensional micro flow manifolds for miniaturized chemical analysis systems," <u>J. Micromech. Microeng.</u> , 4:246-256 (1994)		
XK	Volkmutz et al., "DNA electrophoresis in microlithographic arrays," <u>Nature</u> , 358:600-602 (1992)		
XL	Voss et al., "The immobilization of oligonucleotides and their hybridization properties," <u>Biochem. Soc. Transact.</u> , 16:216-217 (1988)		
XM	Wada, A., <i>International Workshop on Automatic and High Speed DNA Base Sequencing</i> , Hayashibara Forum 1987 at Hayashibara Biochemical Laboratories, Okayama, Japan, July 7-9, 1987.		
XN	Walker et al., "Photolabile Protecting Groups for an Acetylcholine Receptor Ligand. Synthesis and Photochemistry of a New Class of o-Nitrobenzyl Derivatives and their Effects on Receptor Function," <u>Biochemistry</u> , 25:1799-1805 (1986)		
XO	Wallace et al., "The use of synthetic oligonucleotides as hybridization probes. II. Hybridization of oligonucleotides of mixed sequence to rabbit $\beta$ -globin DNA," <u>Nuc. Acids Res.</u> , 9(4):879 (1981).		
XP	Wallace et al., "Hybridization of synthetic oligodeoxyribonucleotides to $\Phi\chi$ 174 DNA: the effect of single base pair mismatch," <u>Nuc. Acids Res.</u> , 11(6):3543-3557 (1979)		
XQ	Washizu et al., "Handling Biological Cells Using a Fluid Integrated Circuit," <u>IEEE Transactions Industry Applications</u> , 26(2):352-358 (1990)		
XR	Wiedmann, M. et al., "Ligase Chain Reaction (LCR) - Overview and Applications," <u>PCR Meth. Appl.</u> , 3(4):S51-S64 (1994).		



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___ XS	Werner et al., "Size-Dependent Separation of Proteins Denatured in SDS by Capillary Electrophoresis Using a Replaceable Sieving Matrix," <u>Anal. Biochem.</u> , 212:253-258 (1993)		
___ XT	White et al., "An Evaluation of Confocal Versus Conventional Imaging of Biological Structures by Fluorescence Light Microscopy," <u>J. Cell Biol.</u> , 105(1):41-48 (1987)		
___ XU	Widacki et al., "Biochemical Differences in Qa-2 Antigens Expressed by Qa-2+,6+ and Qa-2a+,6- Strains. Evidence for Differential Expression of the Q7 and Q9 Genes," <u>Mol. Immunology</u> , 27(6):559-570 (1990)		
___ XV	Wilcox et al., "Synthesis of Photolabile 'Precursors' of Amino Acid Neurotransmitters," <u>J. Org. Chem.</u> , 55:1585-1589 (1990)		
___ XW	Wilding et al., "PCR in a Silicon Microstructure," <u>Clin. Chem.</u> , 40(9):1815-1818 (1994)		
___ XX	Wilding et al., "Manipulation and Flow of Biological Fluids in Straight Channels Micromachined in Silicon," <u>Clin. Chem.</u> , 40(1):43-47 (1994)		
___ XY	Wittman-Liebold, eds., Methods in Protein Sequence Analysis, from Proceedings of 7th Int'l Conf., Berlin, Germany, 7/3-8/88, table of contents, pp. xi-xx* (1989)		
___ XZ	Wood et al., "Base composition-independent hybridization in tetramethylammonium chloride: A method for oligonucleotide screening of highly complex gene libraries," <u>PNAS</u> , 82:1585-1588 (1985).		
___ YA	Woolley et al., "Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips," <u>PNAS</u> , 91:11348-11352 (1994)		
___ YB	Wu et al., "Synthesis and Properties of Adenosine-5'-triphospho-γ-5-(5-sulfonic acid)naphthyl Ethylamidate: A Fluorescent Nucleotide Substrate for DNA-Dependent RNA Polymerase from <i>Escherichia coli</i> ," <u>Arch. Biochem. Biophys.</u> , 246(2):564-571 (1986)		
___ YC	Wu et al., "Laboratory Methods, Direct Analysis of Single Nucleotide Variation in Human DNA and RNA Using <i>In Situ</i> Dot Hybridization," <u>DNA</u> , 8(2):135-142 (1989)		
___ YD	Yamamoto et al., "Features and applications of the laser scanning microscope," <u>J. Mod. Optics</u> , 37(11):1691-1701 (1990)		
___ YE	Yarbrough et al., "Synthesis and Properties of Fluorescent Nucleotide Substrates for DNA-dependent RNA Polymerases," <u>J. Biol. Chem.</u> , 254(23):12069-12073 (1979)		
___ YF	Yosomiya et al., "Performance, Glass fiber Having Isocyanate Group on the Surface. Preparation and Reaction with Amino Acid," <u>Polymer Bulletin</u> , 12:41-48 (1984)		
___ YG	Young, W.S., "Simultaneous Use of Digoxigenin- and Radiolabeled Oligodeoxyribonucleotide Probes for Hybridization Histochemistry," <u>Neuropeptides</u> , 13:271-275 (1989)		
___ YH	Yue et al., "Miniature Field-Flow Fractionation System for Analysis of Blood Cells," <u>Clin. Chem.</u> , 40(9):1810-1814 (1994)		
___ YI	Zehavi et al., "Light-Sensitive Glycosides. I. 6-Nitroveratryl β-D-Glucopyranoside and 2-Nitrobenzyl β-D-Glucopyranoside," <u>J. Org. Chem.</u> , 37(14):2281-2285 (1972)		
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EXAMINER		DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.